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Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
				Application Number	10/661,832
				Filing Date	September 12, 2003
				First Named Inventor	Qing Hu
				Art Unit	N/A 2828
Examiner Name	Not Yet Assigned				
Sheet	1	of	2	Attorney Docket Number	101328-0177

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
2/21	AA	US-6,144,679	11-07-2000	Herman, et al.	
2/21	AB	US-6,563,622-B2	05-13-2003	Mueller, et al.	
2/21	ACE	US-5,936,989	08-10-1999	Capasso, et al.	
2/21	AD	US-5,745,516	04-28-1998	Capasso, et al.	
2/21	AE	US-5,509,025	04-16-1996	Capasso, et al.	
2/21	AF	US-5,457,709	10-10-1995	Capasso, et al.	
2/21	AG	US-6,188,477-B1	02-13-2001	Pu, et al.	
2/21	AH	US-6,154,475	11-28-2000	Soref, et al.	
2/21	AI	US-6,370,219-B1	04-09-2002	Peale	
2/21	AJ	US-6,472,683-B1	10-29-2002	Li	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
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NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²
2/21	CA	Kazarinov and Suris, "Possibility of the amplification of electromagnetic waves in a semiconductor and superlattice," Sov. Phys. Semicond. 5, 707 (1971)		
2/21	CB	Faist, et al., "Quantum cascade laser," Science 264, 477 (1994)		
2/21	CC	Beck, et al., "Continuous Wave Operations of a Mid-infrared Semiconductor Laser at Room Temperature," Science 295, 301 (2002)		
2/21	CD	Helm, et al., "Intersubband Emission from Semiconductor Superlattices Excited by Sequential Resonant Tunneling," Phys. Rev. Lett. 63, 74 (1989)		
2/21	CE	Kohler, et al., "Terahertz semiconductor-heterostructure laser," Nature, 417, 156 (2002)		
2/21	CF	Tredicucci et al. "High performance interminiband quantum cascade lasers with graded superlattice," Appl. Phys. Letter. 73, 2101 (1998)		
2/21	CG	Rochat, et al., "Low-threshold terahertz quantum-cascade lasers," Appl. Phys. Lett. 81, 1381 (2002)		
2/21	CH	Williams, et al., "3.4-THz quantum cascade laser based on Longitudinal-optical-phonon scattering for depopulation," Appl. Phys., Lett. 82, 1015 (2003). Also published in Virtual Journal of Nanoscale Science & Technology, 7(8) (2003)		
2/21	CI	Unterrainer, et al., "Quantum cascade lasers with double metal-semiconductor waveguide resonators," Appl. Phys. Lett. 80, 3060 (2002)		
2/21	CJ	Lee, et al., "Au-In bonding below the eutectic temperature," IEEE Trans. Comp, Hybrids, Manuf. Technol. 16, 311 (1993)		

Examiner Signature	<i>Handwritten Signature</i>	Date Considered	7/04/05
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WBL	CK	Wang, et al., "Die bonding with Au/In isothermal solidification technique," J. Electron. Mat. 29, 443 (2000)	
DWL	CL	Wang, et al., "Stable and shallow PdIn ohmic contacts to n-GaAs," Appl. Phys. Lett. 56, 2129 (1990)	
TW	CM	Trocconi, et al., "Mid-infrared (n = 7.4 um) quantum cascade laser amplifier for high power single-mode emission and improved beam quality," Appl. Phys. Lett. 80, 4103 (2002)	
TW	CN	Mueller, et al., "2.5 THz Laser Local Oscillator for the EOS Chem 1 Satellite," Proceedings of the Ninth International Space Terahertz Technology Symposium, pp. 563-572, Pasadena, CA, March 17-19 (1998)	
TW	CO	Williams, et al., "Narrow-linewidth terahertz intersubband emission from three-level systems," American Institute of Physics (1999)	
TW	CP	Williams and Hu, "Optimized energy separation for phonon scattering in three-level terahertz intersubband lasers," American Institute of Physics (2001)	
TW	CQ	Xu and Hu, "Electrically pumped tunable terahertz emitter based on intersubband transition," American Institute of Physics (1997)	
TW	CR	Faist, et al., "Bound-to-Continuum and Two-Phonon Resonance Quantum-Cascade Lasers for High Duty Cycle, High-Temperature Operation," IEEE (2002)	

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Examiner Signature	<i>Julia Key</i>	Date Considered	7/05/05
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